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Congruences for Combinatorial Sequences

Abstract for the Colloquium 2005 April 22

We derive congruences for various sequences involving binomial coefficients. In particular, we are able to prove some conjectures of Benoit Cloitre. Surprisingly, the Thue-Morse sequence (from the theory of combinatorics on words) makes an appearance. I will not assume any prior knowledge of combinatorics.

This is joint work with Emeric Deutsch.

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